

10

2 EP 1424360

<p><b>2004-432933/41</b>      A23 (A25 A32)      <b>FARB 2002.11.26</b> BAYER AG      *EP 1424360-A1 2002.11.26 2002-1055044(+2002DE-1055044) (2004.06.02) C08L 67/02, 77/02, 101/00</p> <p>The use of terminal polyfunctional polymer compounds, e.g. polyester, polyglycerol or polyether and their blends useful for thin wall technology and processing with multitools, e.g. in injection molding (Ger)</p> <p><b>C2004-162304</b> R(AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR)</p> <p>Addnl. Data:    BRAIG T, JOACHIM D, PERSIGHEHL P, VAN MULLEKOM R 2003.11.19 2003EP-026583</p> <p><u>NOVELTY</u> The use of terminal polyfunctional polymer compounds (B) selected from polyester, polyglycerol or polyether, e.g. polybutylene- or polyethylene terephthalate, polyamide, polycarbonate, and blends of these for lowering the melt viscosity in thermoplastic condensates is new.</p> <p><u>USE</u></p>	<p>A(5-E1C, 5-H1, 7-A3A, 7-A3C, 11-B12)</p> <p>The polymer composition is useful for thin wall technology, i.e. for shaped parts of wall thickness less than 2.5, preferably 1.0 mm (claimed), and for processing with multitools, where at least 4, preferably at least 16 shaped parts can be handled in an injection molding system (claimed).</p> <p><u>ADVANTAGE</u> The composition has a high flow rate and lowers the melt viscosity of thermoplastic polycondensates.</p> <p><u>EXAMPLE</u> A composition contained (wt. %): component A1, (linear polybutylene terephthalate, intrinsic viscosity about 0.93 cm<sup>3</sup>/g (97.5), component B1, highly branched aliphatic polyester [CA 1505-00-0](2.0), based on ditrimethylpropane and alpha, alpha-bis(hydroxymethyl)propionic acid, molecular weight 3604 g/mole, and additive (0.5), and had a melt viscosity of 62 (1000s<sup>-1</sup>).</p> <p><u>TECHNOLOGY FOCUS</u></p> <p>EP 1424360-A+</p>
--	--

Polymers - Preferred Components: component B is polyglycerol, or a highly branched or dendritic polyester. Compound B is present in quantity 0.1-10, preferably 0.5-4 wt.% and is selected from: polyester, polyglycerol, or polyether, preferably highly branched, dendritic polyester, polyglycerol or polyether, preferably based on nonaromatic monomer cores, and to lower the melt viscosity of the composition it contains (wt.%): (A) at least one thermoplastic polycondensate (99.9-10, preferably 99.0-55), (C) at least one filler and consolidation agent (0-70, preferably 5-40), (D) at least one fire protection additive (0-30, preferably 9-19), (E) at least one elastomer modifier (0-80, preferably 2-19), and (F) further additives (0-10, preferably 0.1-0.9), where the sum of all weights = 100.  
(24pp2401DwgNo.0/0)